

3dB Hybrid Coupler/Combiner

PRODUCT OVERVIEW

Our Hybrid Coupler takes two separate inputs (commonly from different carriers) and combines them for output (typically an antenna feed). The coupler is performance-optimized for carrier signals within the 698-2700 MHz band. The device incorporates a two-input-by-two-output port structure, so that multiple antenna feeds can be used. The product circuit design provides high isolation across output ports. Designed for medium-power DAS networks (up to 80 Watts per wireless carrier), the Hybrid Coupler's case material, component plating, and circuit components deliver minimal PIM, reliably, for low PIM applications. Meeting IP67 specifications, our DAS Hybrid Couplers offer excellent signal and mechanical reliability indoors or out. Units are available with N, 7/16 DIN, or 4.3-10 connectors for tight mechanical connections.



AWS 3dB Hybrid Coupler/Combiner

Key Features

- 160W Power Combiner
- High Isolation
- Low PIM Tested and Verified
- Low VSWR
- Low Dissipative Loss
- High Environment Reliability; IP67
- ROHS Compliant

Specifications

3dB Hybrid Coupler / Combiner	
Connector Type	Part Number - By Connector Type
N Connector	MPHC2-N-69827
7/16 DIN Connector	MPHC2-D-69827
4.3-10 Connector	MPHC2-B-69827
Specification	
Function	2x2 Hybrid Coupler
Impedance:	50Ω nominal
Power/input:	80W avg., 1.5kW pk.
Nominal Coupling:	3 dB
Frequency Range:	698-2700 MHz
Isolation (dB):	>30
VSWR Max:	1.20:1
Sensitivity (dB)	±0.40
Dissipative Loss (dB)	<0.2
PIM 2 tone test at +43 dBm	N, 7/16 DIN: <-153 dBc; 4.3/10 Connectors: <-161 dBc
Environment Rating	IP67
Temperature Range:	-35 to +65°C
Finish:	RoHS compliant
Housing:	Passivated aluminum
Connectors: (Body/Finish)	Brass/Triplate